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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): James A. Zagzebski, *et al.*  
Serial No.: 10/772,663  
Filed: February 4, 2004  
For: Parametric Ultrasound Imaging Using Angular Compounding  
Grp. Art Unit: 1756  
Docket No.: 960296.00041

INFORMATION DISCLOSURE STATEMENT

The following are submitted in the above-identified application in compliance with 37 CFR 1.97 & 1.98:

- ☒ A list of documents on Form PTO-1449 together with copies of identified documents when required;
- ☒ A translation or a concise explanation of each non-English language document is enclosed herewith.

This paper is submitted in accordance with:

- ☒ 37 CFR 1.97(b) (within 3 months of filing or prior to mailing of 1<sup>st</sup> Office Action)
- ☐ 37 CFR 1.97(c) (before Final Office Action or Notice of Allowance); and
  - ☐ The required certification made under the heading "Certification" below; or
  - ☐ The \$\_\_\_\_\_ fees specified in 37 CFR §1.17(p) for submission of this Information Disclosure Statement is authorized under the heading "Authorization to Charge Fees" below.

- ☐ 37 CFR 1.97(d) (before issue fee payment); and
- a) This is a petition for consideration of the subject Information Disclosure Statement. The petition fee \$ \_\_\_\_\_ required by 37 CFR 1.17(i)(1) is authorized under the heading "Authorization to Charge Fees". (Direct this letter to "Attention Petitions Examiner" and if applicable include batch locator information: e.g. "Allowed Files, Batch \_\_\_\_\_, Date of Allowance \_\_\_\_\_"), and
- b) The required Certification is stated under the heading "Certification" below.

☐ Certification

- ☐ Each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement; or
- ☐ No item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this document after making reasonable inquiry, was known to any individual designated in 37 CFR 1.56(c) more than three (3) months prior to the filing of this Statement.

☒ Authorization to Charge Fees

Please charge all applicable fees associated with the submittal of this Information Disclosure Statement to Deposit Account No. 17-0055.

Respectfully submitted,

JAMES A. ZAGZEBSKI, *et al.*

By: \_\_\_\_\_

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Substitute for form 1449/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/772,663
Filing Date	February 4, 2004
First Named Inventor	James A. Zagzebski
Art Unit	1756
Examiner Name	
Attorney Docket Number	960296.00041

Sheet

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of

2

## **OTHER PRIOR ART–NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1	PESAVENTO, A., et al.: "Ultrasonic reflection tomography and tomographic parameter extraction for post-discotomic scarring diagnostics"; Ultrasonics Symposium 1997.	
		Proceedings., 1997 IEEE Toronto, Ontario, Canada 5-8 Oct. 1997, New York NY, IEEE 5 Oct, 1997	
	2	BARTELT H.: "Computation of local directivity, speed of sound and attenuation from ultrasonic reflection tomography data", Ultrasonic Imaging, Dynamedia, Inc., Silver	
		Spring, MD, vol. 10, no. 2, 1 April 1988	
	3	ROHLING R.N., et al.: "Automatic registration of 3-D ultrasound images" Ultrasound In Medicine and Biology", New York NY, vol. 24, no. 6, July 1998	
	4	ANDERSON, M.E., et al.: "Microcalcifications as elastic scatterers under ultrasound: implication for medical imaging"; Ultrasonics Symposium, 1996, Proceedings., 1996	
		IEEE San Antonio TX; 3-6 Nov. 1996, New York, NY 3 Nov. 1996	
	5	PESAVENTO A., EMERT H., BROLL-ZEITVOGEL E.; GRIFKA J.: "Quantitative Abbildungskonzepte mit multidirektionalen Ultraschall-Echodaten zur Abbildung der	
		Ruckenmuskulator" Z. Med. Phys. vol. 9, 1999	

Examiner  
Signature

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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PTO/SB/08B (08-00)

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<b>Substitute for form 1449B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		<b>Complete if Known</b>			
		<b>Application Number</b>	10/772,663		
		<b>Filing Date</b>	February 4, 2004		
		<b>First Named Inventor</b>	James A. Zagzebski		
		<b>Group Art Unit</b>	1756		
		<b>Examiner Name</b>			
<b>Sheet</b>	2	<b>of</b>	2	<b>Attorney Docket Number</b>	960296.00041

<b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>			
<b>Examiner Initials*</b>	<b>Cite No.<sup>1</sup></b>	<b>Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.</b>	<b>T<sup>2</sup></b>
	6	OELZE, MICHAEL L., ET AL.; "Method of improved scatterer size estimation and application to parametric imaging using ultrasound"; Journal of Acoustical Society of America, American Institute of Physics; New York; vol. 112, no. 6, December 2002.	
	7	INSANA, M.F. ET AL.: "Describing small-scale structure in random media using pulse-echo ultrasound", Journal of the Acoustical Society of America, American Institute of Physics; New York. vol. 87, no. 1, January 1990	
	8	SUZUKI K., HAYASHI N., SASAKI Y., TANAKA Y., ET AL: "Cepstral analysis of ultrasound in chronic liver disease - a preliminary study in the non-invasive evaluation of structural change"; Frontiers Med. Biol. Engineering, vol. 3, no. 4, 1991.	
	9	CHEN J., MADSEN E., ZAGZEBSKI J.: "A method for determination of frequency-dependent effective scatterer number density", J. Acoust. Soc. Am. , Vol 95, No. 1; January 1994	

<b>Examiner Signature</b>		<b>Date Considered</b>	
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<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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